

REPRESENTING EXPRESSIONS - Directions

1. Pick a partner that you can work well with and sit with him/her.
2. Take the "Representing Expressions" cards and try to match up the cards in Sets A and B.
 - Be sure to communicate with your partner and explain why you think two cards match.
 - Note that not all cards will have a match or some cards will have more than one match.
3. Next, try to match the cards in Set D with the sets you created in #2.
4. Put your matches on a mini-poster. Make sure it's clear which matches go together and that your names are on your paper. At the bottom of the poster, describe any strategies you used that were helpful in completing the activity.
5. If you finish your poster before time is called
 - Match the cards in set C and add them to the poster and/or
 - Fill in some the blank cards to complete different sets and add them to the poster

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Representing Expressions

A1 Card set A – Algebraic expressions

E1 $\frac{n+6}{2}$	E2 $3n^2$
E3 $2n+12$	E4 $2n+6$
E5 $2(n+3)$	E6 $\frac{n}{2}+6$
E7 $(3n)^2$	E8 $(n+6)^2$
E9 $n^2+12n+36$	E10 $\frac{n}{2}+3$
E11 n^2+6	E12 n^2+6^2
E13	E14

A1-5

A1 Card set B – Explanations in words

W1 Multiply n by two, then add six.	W2 Multiply n by three, then square the answer.
W3 Add six to n , then multiply by two.	W4 Add six to n , then divide by two.
W5 Add three to n , then multiply by two.	W6 Add six to n , then square the answer.
W7 Multiply n by two, then add twelve.	W8 Divide n by two, then add six.
W9 Square n , then add six.	W10 Square n , then multiply by nine.
W11	W12
W13	W14

A1-6

A1 Card set C – Tables of numbers

T1					
n	1	2	3	4	
Ans	14	16	18	20	

T2					
n	1	2	3	4	
Ans			81	144	

T3					
n	1	2	3	4	
Ans		10	15	22	

T4					
n	1	2	3	4	
Ans	3		27	48	

T5					
n	1	2	3	4	
Ans			81	100	

T6					
n	1	2	3	4	
Ans		10	12	14	

T7					
n	1	2	3	4	
Ans		4		5	

T8					
n	1	2	3	4	
Ans	6.5	7	7.5	8	

A1-7

A1 Card set D – Areas of shapes

A1 	A2
A3 	A4
A5 	A6
A7 	A8

A1-8